

Drought Monitoring Technical Committee Update

to the

Arizona Interagency Coordinating Group

June 24, 2020

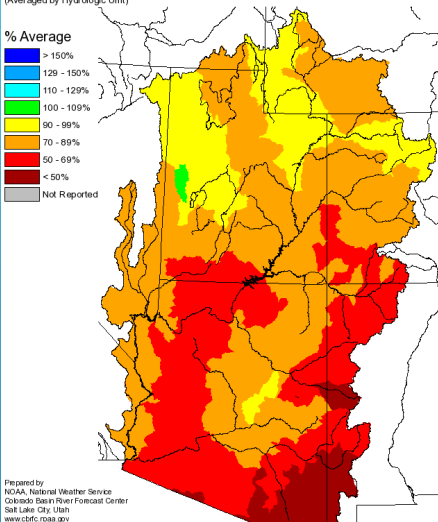
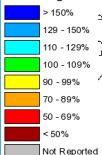
Nancy J. Selover
Arizona State Climate Office

Precipitation Comparison Colorado River Basin

WY 2013

Seasonal Precipitation, October 2012 - April 2013
(Averaged by Hydrologic Unit)

% Average

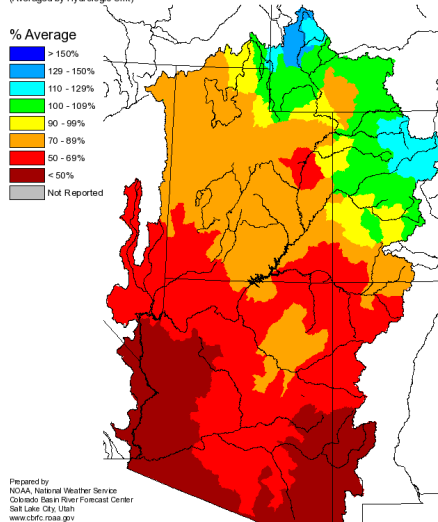
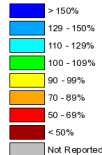


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

WY 2014

Seasonal Precipitation, October 2013 - April 2014
(Averaged by Hydrologic Unit)

% Average

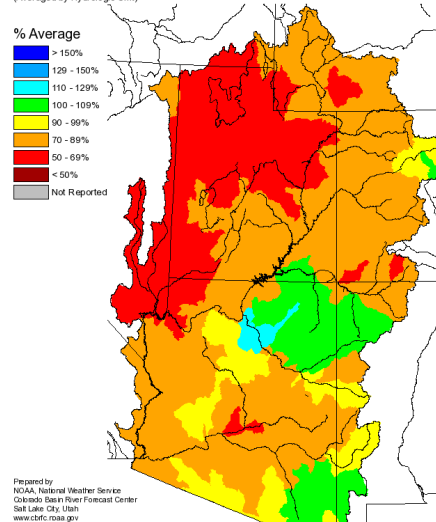
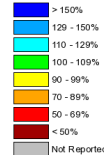


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WY 2015

Seasonal Precipitation, October 2014 - April 2015
(Averaged by Hydrologic Unit)

% Average

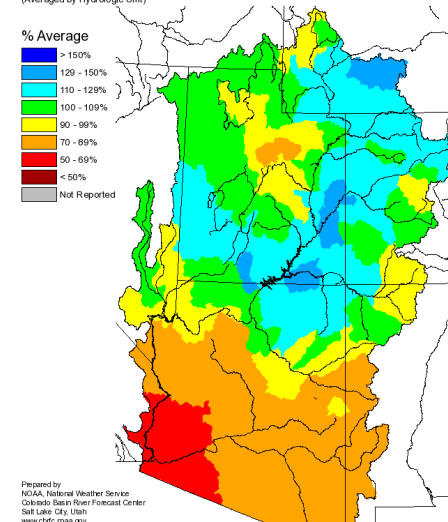
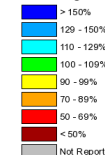


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WY 2016

Seasonal Precipitation, October 2015 - April 2016
(Averaged by Hydrologic Unit)

% Average

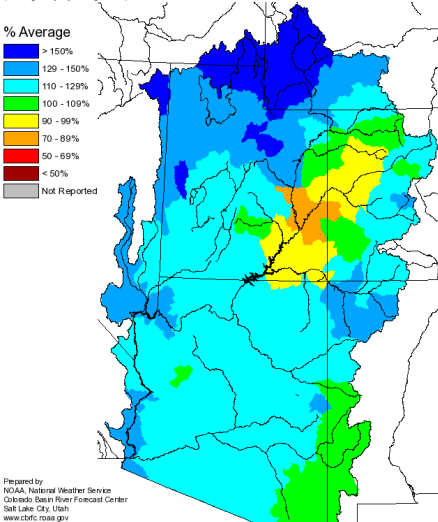
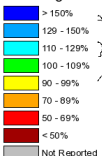


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WY 2017

Seasonal Precipitation, October 2016 - April 2017
(Averaged by Hydrologic Unit)

% Average

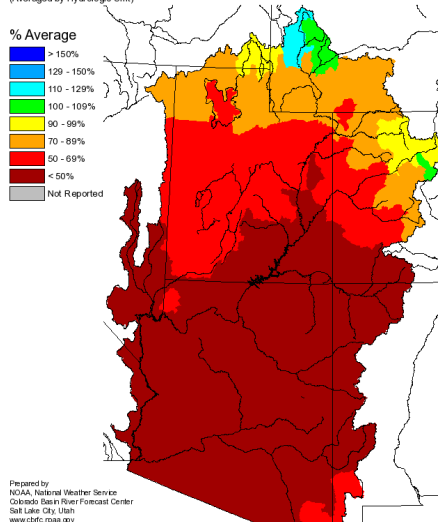
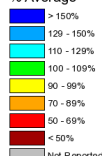


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WY 2018

Seasonal Precipitation, October 2017 - April 2018
(Averaged by Hydrologic Unit)

% Average

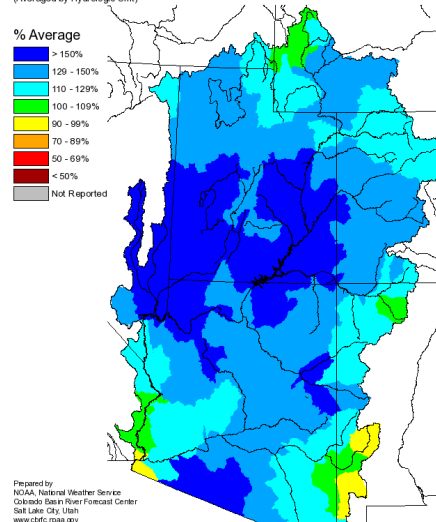
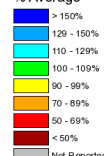


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WY 2019

Seasonal Precipitation, October 2018 - April 2019
(Averaged by Hydrologic Unit)

% Average

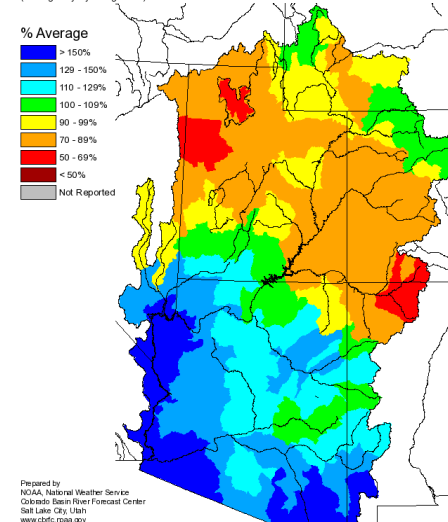
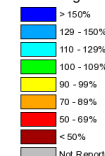


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WY 2020

Seasonal Precipitation, October 2019 - April 2020
(Averaged by Hydrologic Unit)

% Average

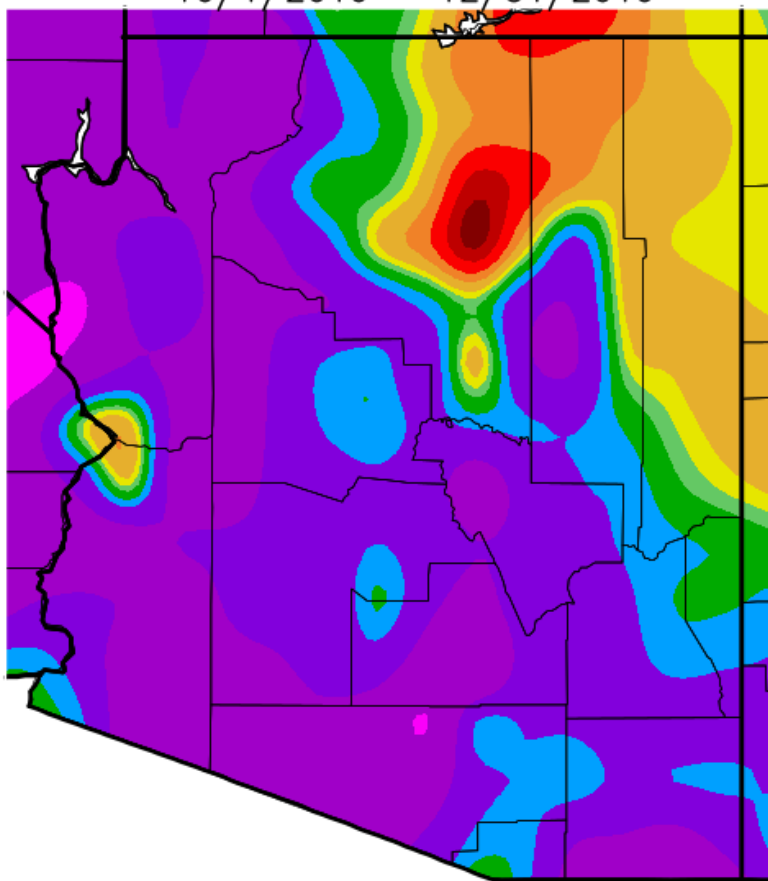


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Water Year Precipitation Percent of Average

Oct-Dec 2019

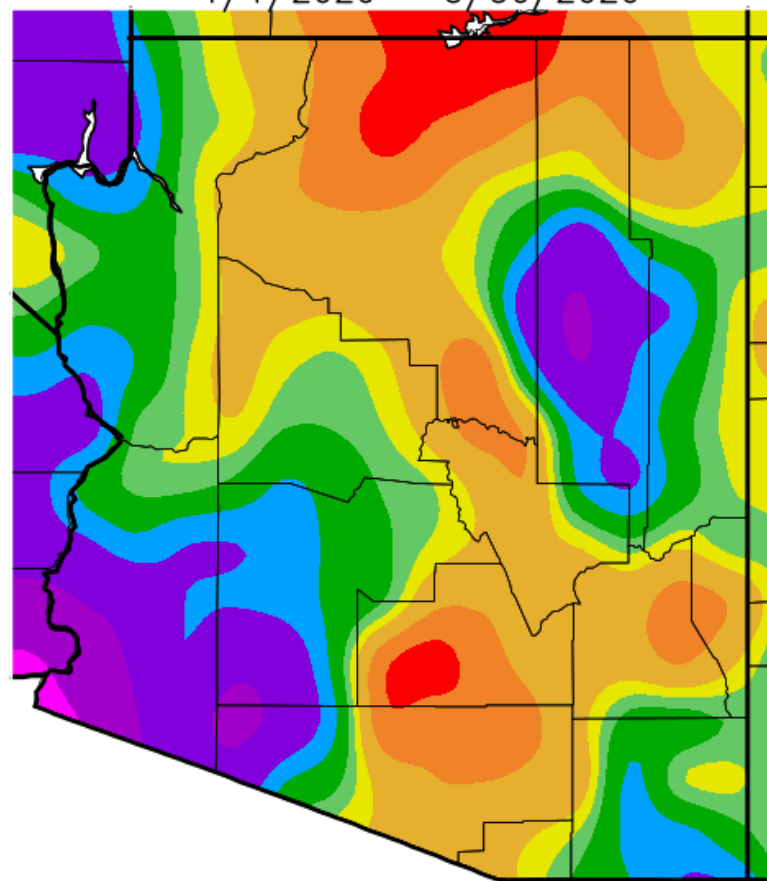
Percent of Average Precipitation (%)
10/1/2019 – 12/31/2019



Generated 1/ 1/2020 at WRCC using provisional data.
NOAA Regional Climate Centers

Jan-May 2020

Percent of Average Precipitation (%)
1/1/2020 – 5/30/2020



Generated 5/31/2020 at WRCC using provisional data.
NOAA Regional Climate Centers

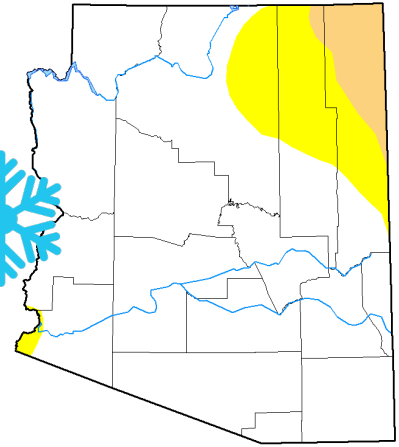
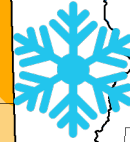
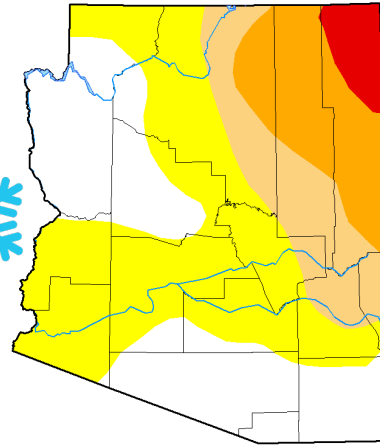
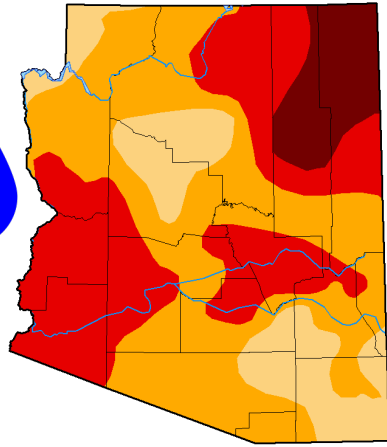
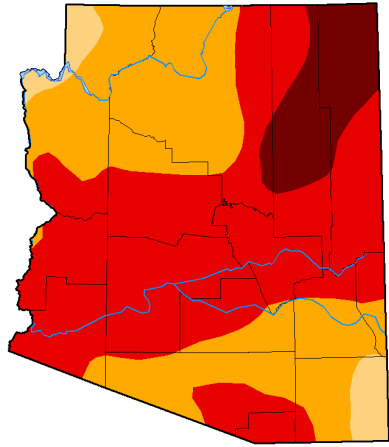
National Drought Monitor Comparison (Short-Term)

May 1, 2018

Sep 25, 2018

Feb 19, 2019

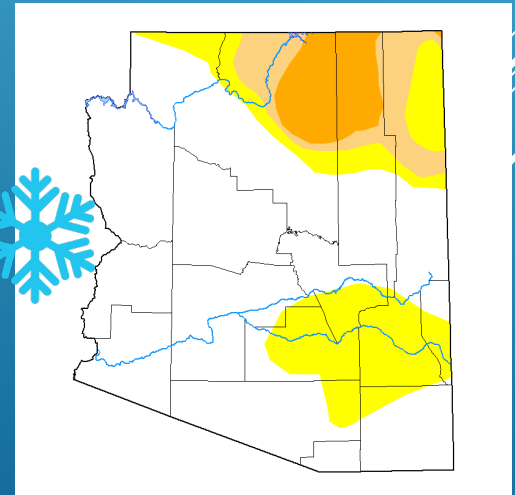
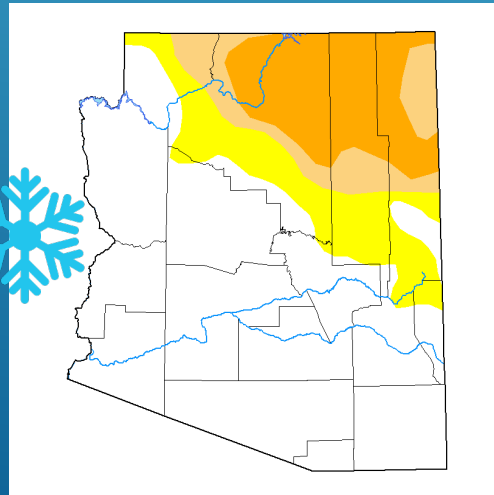
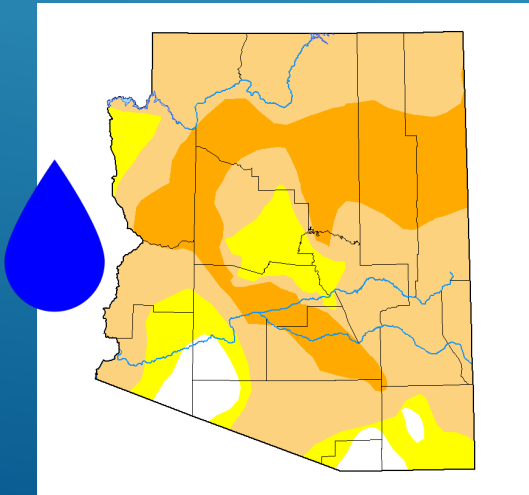
Apr 30, 2019



Oct 1, 2019

Feb 18, 2020

Jun 16, 2020



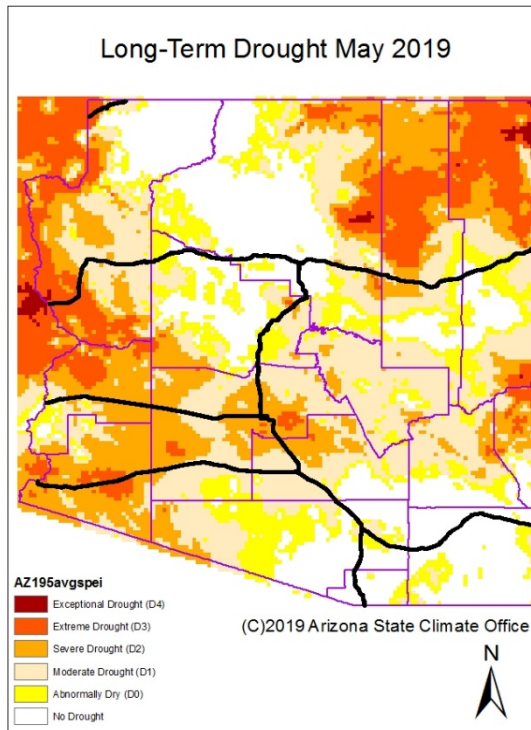
National Drought Monitor Comparison (Short-Term)

Percent of State in Drought

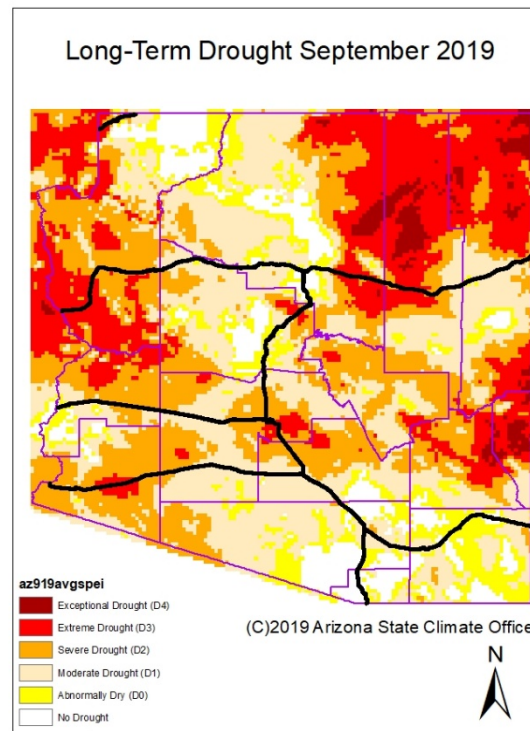
Category	Oct 2, 2018	Jun 1, 2019	Oct 1, 2019	Jun 16, 2020
Exceptional Drought	9%	0%	0%	0%
Extreme Drought	25%	0%	0%	0%
Severe Drought	43%	0%	26%	7%
Moderate Drought	22%	4%	55%	7%
Abnormally Dry	1%	12%	14%	19%
No Drought	0%	84%	5%	67%

Long Term Drought Status – Gridded

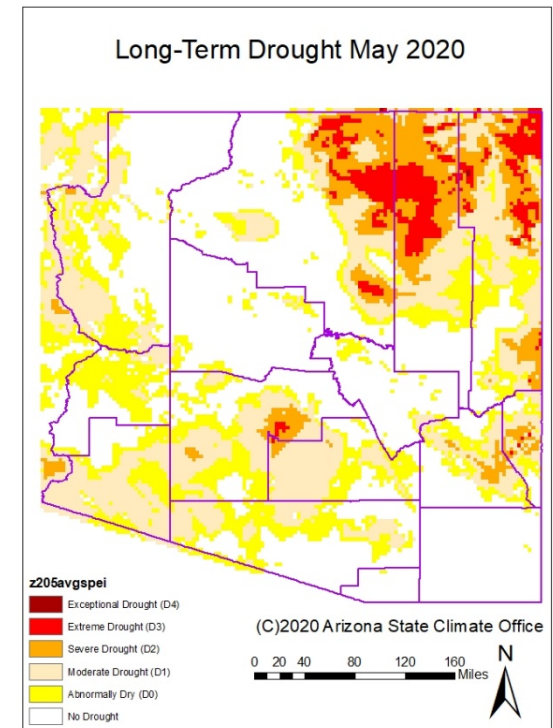
May 2019



September 2019



May 2020



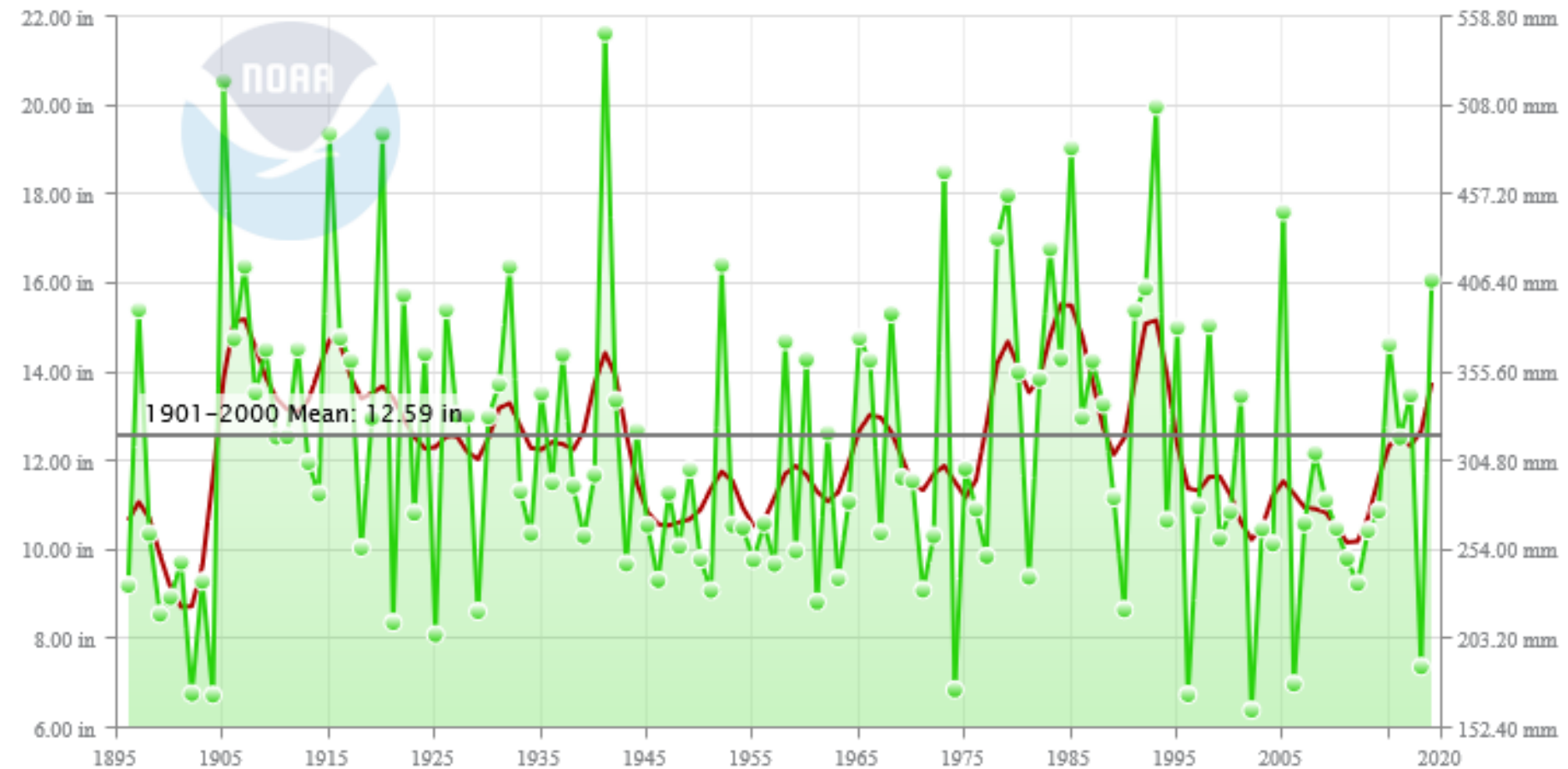
Based on average of 24-, 36-, and 48-month
SPI & SPEI

Long-Term Statewide Precipitation

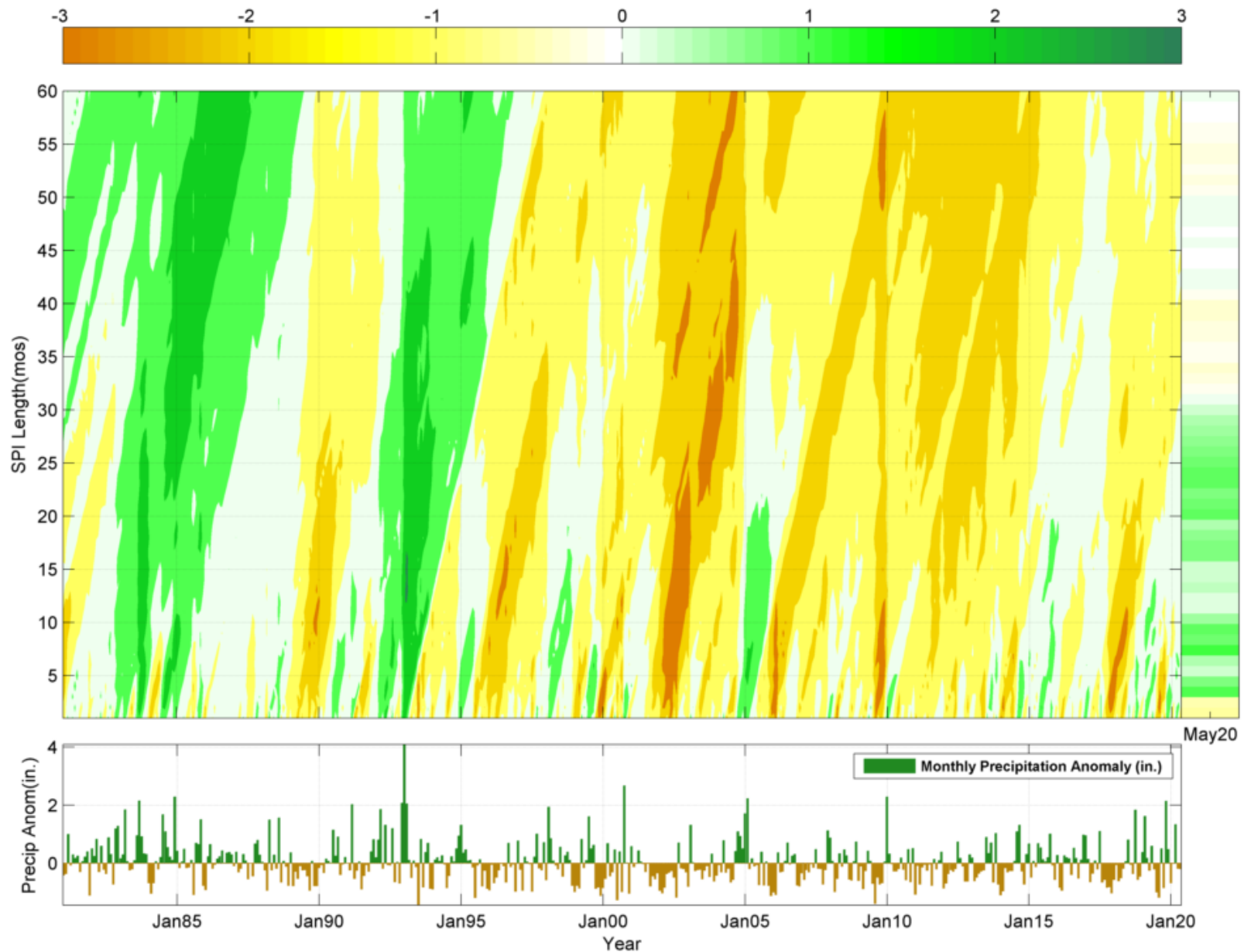
Arizona Precipitation

June–May

— Binomial Filter



Arizona - Standardized Precipitation Index - (1-60 mos, Jan1981 - May2020)





Friday is the 30th anniversary of our hottest day on record in Phoenix.

At the end of this year NOAA will calculate the new “Normals”, 30-year averages of temperature and precipitation, dropping the decade **1981-1990**, and including the decade **2011-2020**. The all-time record will no longer be included in the new “Normals”. However, the new “Normals” will be warmer than the old ones, as the latest decade was warmer than the 1980s, and it was also drier.

New Normals 1991-2020

Questions ?

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<http://azclimate.asu.edu>